

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for determining a multicast domain for a node on a computer network, the method comprising:
obtaining a destination comprising a computer on a computer network, wherein the same destination is obtained for each of a plurality of nodes on the computer network that send data to the destination;
determining a unique identification for a first router encountered when sending data from a node to the destination, wherein the node itself determines the unique identification for the first router;
preparing a multicast domain identification based on the unique identification determined; and
providing the multicast domain identification to a central location.
2. (Original) The method of claim 1, further comprising determining a specific port of the first router encountered and including a specific port identification in the multicast domain identification.
3. (Original) The method of claim 1, wherein the central location comprises an administrative system that includes a database of multicast domains.
4. (Original) The method of claim 1, wherein the multicast domain identification comprises a router or similar network device identification and a port identification.
5. (Original) The method of claim 1, further comprising reporting files that are in a multicast domain cache.

6. (Currently Amended) A computer-readable medium for storing program data, wherein the program data comprises executable instructions for implementing a method in a computing device for determining a multicast domain for a node on a computer network, the method comprising:

obtaining a destination comprising a computer on a computer network, wherein the same destination is obtained for each of a plurality of nodes on the computer network that send data to the destination;

determining a unique identification for a first router encountered when sending data from a node to the destination, wherein the node itself determines the unique identification for the first router;

preparing a multicast domain identification based on the unique identification determined; and

providing the multicast domain identification to a central location.

7. (Original) The computer-readable medium of claim 6, further comprising determining a specific port of the first router encountered and including a specific port identification in the multicast domain identification.

8. (Original) The computer-readable medium of claim 7, wherein the central location comprises an administrative system that includes a database of multicast domains.

9. (Original) The computer-readable medium of claim 8, wherein the multicast domain identification comprises a router or similar network device identification and a port identification.

10. (Original) The computer-readable medium of claim 9, further comprising reporting files that are in a multicast domain cache.

11. (Currently Amended) A system for determining a multicast domain for a node on a computer network, the system comprising:

a computing device;

a computer-readable medium that is part of the computing device or in electronic communication with the computing device, the computer-readable medium comprising executable instructions for implementing a method for determining the multicast domain for the computing device, the method comprising:

obtaining a destination comprising a computer on the computer network, wherein the same destination is obtained for each of a plurality of nodes on the computer network that send data to the destination;

determining a unique identification for a first router encountered when sending data from the computing device to the destination, wherein the node itself determines the unique identification for the first router;

preparing a multicast domain identification based on the unique identification determined; and

sending the multicast domain identification to an administrative system on the computer network.

12. (Original) The system of claim 11, further comprising determining a specific port of the first router encountered and including a specific port identification in the multicast domain identification.

13. (Original) The system of claim 11, wherein the multicast domain identification comprises a router or similar network device identification and a port identification.

14. (Original) The system of claim 11, wherein the method further comprises reporting files that are in a multicast domain cache on the computing device.